

AMENDMENTS TO THE CLAIMS

Claims 1-45 were pending at the time of the Office Action.

Claims 1-3, 6, 9-17, 21-23, 26, 32-41, and 43-45 are amended.

Claims 1-45 remain pending.

CLAIMS

1. (CURRENTLY AMENDED) A method comprising:
determining at least one of a sensing function or a control function at a first mote of a second mote; and
creating one or more mote-addressed content indexes of the second mote at the first mote
in response to said determining.
2. (CURRENTLY AMENDED) The method of Claim 1, wherein said determining at least one of a sensing function or a control function at a first mote of a second mote further comprises:
accessing at least one device entity registry.
3. (CURRENTLY AMENDED) The method of Claim 1, wherein said determining at least one of a sensing function or a control function at a first mote of a second mote further comprises:
communicating with at least one device-associated entity at the second mote.
4. (CURRENTLY AMENDED) The method of Claim 3, wherein said communicating with at least one device-associated entity at the second mote further comprises:
communicating with at least one of a light device entity, an electrical device entity, a pressure device entity, a temperature device entity, a volume device entity, an inertial device entity, or an antenna entity.

5. (CURRENTLY AMENDED) The method of Claim 3, wherein said communicating with at least one device-associated entity at the second mote further comprises:
accessing at least one device identifier of a mote-addressed content index.

6. (CURRENTLY AMENDED) The method of Claim 1, wherein said determining at least one of a sensing function or a control function at a first mote of a second mote further comprises:

communicating with at least one device entity using a common application protocol.

7. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

creating at least one extensible index.

8. (ORIGINAL) The method of Claim 7, wherein said creating at least one extensible index further comprises:

creating the at least one extensible index in response to a type of content indexed.

9. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

creating at the first mote at least one of a mote-addressed sensing index or a mote-addressed control index.

10. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

creating at the first mote at least one of a mote-addressed routing/spatial index.

11. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

inserting at least one device identifier in the one or more mote-addressed content indexes.

12. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

establishing an index-creating agent at the first mote;

determining a mote-network address of the second mote; and

associating at the first mote at least one of a mote-addressed sensing index, a mote-addressed control index, or a mote-addressed routing/spatial index with the mote-network address of the second mote.

13. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

migrating an index creation agent to the first mote;

installing an index creation agent at the first mote; and

querying at least one device entity at the second mote with the index creation agent.

14. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

determining a mote-network address of the second mote;

determining one or more types of control available from one or more devices ~~of~~ at the second mote; and

associating the one or more types of control available from one or more devices ~~of~~ at the second mote with the mote-network address of the second mote.

15. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

determining a mote-network address of the second mote;

determining one or more types of sensing available from one or more devices of the second mote; and

associating the one or more types of sensing available from one or more devices of the second mote with the mote-network address of the second mote.

16. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

determining a mote-network address of the second mote;

determining one or more types of spatial information related to devices of or proximate to the second mote; and

associating the one or more types of spatial information related to devices of or proximate to the second mote with the mote-network address of the second mote.

17. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

determining a mote-network address of the second mote;

determining one or more types of absolute or relative spatial information of other motes proximate to the second mote; and

associating at the first mote the one or more types of absolute or relative spatial information of other motes proximate to the second mote with the mote-network address of the second mote.

18. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

associating one or more mote-appropriate routing addresses with the one or more mote-addressed content indexes.

19. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

associating one or more mote-appropriate routing addresses with at least one directly mote-addressed content index.

20. (CURRENTLY AMENDED) The method of Claim 1, wherein said creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

associating one or more mote-appropriate routing addresses with at least one indirectly mote-addressed content index.

21. (CURRENTLY AMENDED) A system comprising:

means, including a storage medium, for determining at least one of a sensing function or a control function of a second mote at a first mote; and

means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining.

22. (CURRENTLY AMENDED) The system of Claim 21, wherein said means, including a storage medium, for determining at least one of a sensing function or a control function of a second mote at a first mote further comprises:

accessing at least one device entity registry.

23. (CURRENTLY AMENDED) The system of Claim 21, wherein said means, including a storage medium, for determining at least one of a sensing function or a control function of a second mote at a first mote further comprises:

means for communicating with at least one device-associated entity.

24. (ORIGINAL) The system of Claim 23, wherein said means for communicating with at least one device-associated entity further comprises:

means for communicating with at least one of a light device entity, an electrical device entity, a pressure device entity, a temperature device entity, a volume device entity, an inertial device entity, or an antenna entity.

25. (ORIGINAL) The system of Claim 23, wherein said means for communicating with at least one device-associated entity further comprises:

means for accessing at least one device identifier of a mote-addressed content index.

26. (CURRENTLY AMENDED) The system of Claim 21, wherein said means, including a storage medium, for determining at least one of a sensing function or a control function of a second mote at a first mote further comprises:

means for communicating with at least one device entity at the second mote using a common application protocol.

27. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for creating at least one extensible index.

28. (ORIGINAL) The method of Claim 27, wherein said means for creating at least one extensible index further comprises:

means for creating the at least one extensible index in response to a type of content indexed.

29. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for creating at least one of a mote-addressed sensing index or a mote-addressed control index.

30. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for creating at least one of a mote-addressed routing/spatial index.

31. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for inserting at least one device identifier in the one or more mote-addressed content indexes.

32. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for establishing an index-creating agent at the first mote;

means for determining a mote-network address of the second mote; and

means for associating at least one of a mote-addressed sensing index, a mote-addressed control index, or a mote-addressed routing/spatial index of the second mote with the mote-network address of the first mote.

33. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for migrating an index creation agent to the first mote;

means for installing an index creation agent at the first mote; and

means for querying at least one device entity at the second mote with the index creation agent.

34. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for determining a mote-network address of the second mote;

means for determining one or more types of control available from one or more devices of the second mote; and

means for associating at the first mote the one or more types of control available from one or more devices of the second mote with the mote-network address of the second mote.

35. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for determining a mote-network address of the second mote;

means for determining one or more types of sensing available from one or more devices of the second mote; and

means for associating at the first mote the one or more types of sensing available from one or more devices of the second mote with the mote-network address of the second mote.

36. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for determining a mote-network address of the second mote;

means for determining one or more types of spatial information related to devices of or proximate to the second mote; and

means for associating at the first mote the one or more types of spatial information related to devices of or proximate to the second mote with the mote-network address of the second mote.

37. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for determining a mote-network address of the second mote;

means for determining one or more types of absolute or relative spatial information of other motes proximate to the second mote; and

means for associating at the first mote the one or more types of absolute or relative spatial information of other motes proximate to the second mote with the mote-network address of the second mote.

38. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for associating one or more mote-appropriate routing addresses with the one or more mote-addressed content indexes.

39. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for associating one or more mote-appropriate routing addresses with at least one directly mote-addressed content index.

40. (CURRENTLY AMENDED) The system of Claim 21, wherein said means for creating one or more mote-addressed content indexes of the second mote at the first mote in response to said determining further comprises:

means for associating one or more mote-appropriate routing addresses with at least one indirectly mote-addressed content index.

41. (CURRENTLY AMENDED) A system comprising:
a first mote;
at least one mote-appropriate device at a second mote; and
at least one index creation agent resident in ~~a~~ the first mote, said at least one index creation agent configured to create at least one of a sensing index, a control index, or a routing/spatial index associated with the second mote.

42. (CURRENTLY AMENDED) The system of Claim 41, wherein said at least one mote-appropriate device at a second mote further comprises:
at least one of a light device, an electrical/magnetic device, a pressure device, a temperature device, a volume device, an inertial device, or an antenna.

43. (CURRENTLY AMENDED) The system of Claim 41, wherein at least one index creation agent resident in ~~a~~ the first mote further comprises:
a processor configured to obtain at least one of a sensing function, a control function, or routing/spatial information of the at least one mote-appropriate device at a second mote.

44. (CURRENTLY AMENDED) The system of Claim 41, wherein the first mote comprises:
at least one of a processor, a memory, or a communications device formed from a substrate.

45. (CURRENTLY AMENDED) A system comprising:
a first mote;
at least one mote-appropriate device at a second mote; and
a mote-addressed content index at the first mote having at least one of a sensing function, a control function, or routing/spatial information of said at least one mote-appropriate device at the second mote.